



valentis8002us2.txt
SEQUENCE LISTING

RECEIVED
MAY 21 2003
TECH CENTER 1600/2900

<110> Quertermous, Thomas
Hogan, Brigid
Snodgrass, Ralph H
Zupancic, Thomas J

<120> Antibodies Binding to Polypeptides Encoded by
Developmentally-Regulated Endothelial Cell Locus-1

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<140> US 09/237,981
<141> 1999-01-25

<150> US 08/659,235
<151> 1996-06-05

<150> US 08/480,229
<151> 1995-06-07

<160> 33

<170> PatentIn version 3.2

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Lys Asp Phe Gly Asp Val Leu Phe Val Gly Ser Tyr Lys Leu Ala Tyr
20 25 30

Ser Asn Asp Gly Glu His Trp Met Val His Gln Asp Glu Lys Gln Arg
35 40 45

Lys Asp Lys Val Phe Gln Gly Asn Phe Asp Asn Asp Thr His Arg Lys
50 55 60

Asn Val Ile Asp Pro Pro Ile Tyr Ala Arg Phe Ile Arg Ile Leu Pro
65 70 75 80

valentis8002us2.txt

Leu

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 <212> PRT
 <213> Homo sapiens

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Asp Leu Gly Ser Ser Lys Glu Val Thr Gly Ile Ile Thr Gln Gly Ala
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Arg Asn Phe Gly Ser Val Gln Phe Val Ala Ser Tyr Lys Val Ala Tyr
 20 25 30

Ser Asn Asp Ser Ala Asn Trp Thr Glu Tyr Gln Asp Pro Arg Thr Gly
 35 40 45

Ser Ser Lys Val Phe Gln Gly Asn Leu Asp Asn Asn Ser His Lys Lys
 50 55 60

Asn Ile Phe Glu Lys Pro Phe Met Ala Arg Tyr Val Arg Val Leu Pro
 65 70 75 80

Val

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Lys Ser Leu Ser Ser Glu Met Tyr Val Lys Ser Tyr Thr Ile His Tyr
 20 25 30

valentis8002us2.txt

Ser Glu Gln Gly Val Glu Trp Lys Pro Tyr Arg Leu Lys Ser Ser Met
35 40 45

Val Asp Lys Ile Phe Glu Gly Asn Thr Asn Thr Lys Gly His Val Lys
50 55 60

Asn Phe Phe Asn Pro Pro Ile Ile Ser Arg Phe Ile Arg Val Ile Pro
65 70 75 80

Lys

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<213> mouse

<400> 4

Asp Leu Gln Lys Thr Met Lys Val Thr Gly Ile Ile Thr Gln Gly Val
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Lys Ser Leu Phe Thr Ser Met Phe Val Lys Glu Phe Leu Ile Ser Ser
20 25 30

Ser Gln Asp Gly His His Trp Thr Gln Ile Leu Tyr Asn Gly Lys Val
35 40 45

Lys Val Phe Gln Gly Asn Gln Asp Ser Ser Thr Pro Met Met Asn Ser
50 55 60

Leu Asp Pro Pro Leu Leu Thr Arg
65 70

<210> 5
<211> 83
<212> PRT
<213> Xenopus

<400> 5

Asp Leu Glu Asn Leu Arg Phe Val Ser Gly Ile Gly Thr Gln Gly Ala

valentis8002us2.txt

1 5 10 15

Ile Ser Lys Glu Thr Lys Lys Lys Tyr Phe Val Lys Ser Tyr Lys Val
20 25 30

Asp Ile Ser Ser Asn Gly Glu Asp Trp Ile Thr Leu Lys Gly Asp Asn
35 40 45

Lys His Leu Val Phe Thr Gly Asn Thr Asp Ala Thr Asp Val Val Tyr
50 55 60

Arg Pro Phe Ser Lys Pro Val Ile Thr Arg Phe Val Arg Leu Arg Pro
65 70 75 80

Val Thr Trp

<210> 6
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<213> Xenopus

<400> 6

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Lys His Lys Glu Asn Lys Val Phe Met Arg Lys Phe Lys Ile Gly Tyr
20 25 30

Ser Asn Asn Gly Thr Glu Trp Gly Met Ile Met Asp Ser Ser Lys Asn
35 40 45

Lys Pro Lys Thr Phe Glu Gly Asn Thr Asn Tyr Asp Thr Pro Glu Leu
50 55 60

Arg Thr Phe Ala His Ile Thr Thr Gly Phe Ile Arg Ile Ile Pro
65 70 75

<210> 7

valentis8002us2.txt

<211> 75
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 <213> Homo sapiens

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Gly Asp Ala Asp Gln Trp Val Thr Ser Tyr Lys Ile Arg Tyr Ser Leu
 20 25 30

Asp Asn Val Ser Trp Phe Glu Tyr Arg Asp Gly Ala Ala Ile Thr Gly
 35 40 45

Val Thr Asp Arg Asn Thr Val Val Asn His Phe Phe Asp Thr Pro Ile
 50 55 60

Arg Ala Arg Ser Ile Ala Ile His Pro Leu Thr
 65 70 75

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valentis8002us2.txt

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20 25 30

Xaa Tyr Ser Xaa Asp Gly Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Lys Xaa Lys Val Phe Xaa Gly Asn Thr Asp Xaa Xaa Thr Xaa
50 55 60

Xaa Xaa Asn Xaa Phe Xaa Xaa Pro Ile Xaa Xaa Arg Phe Ile Arg Xaa
65 70 75 80

Xaa Pro Xaa Xaa Xaa
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<210> 9
<211> 2303
<212> DNA
<213> mouse

<400> 9
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ttcccagtgg ccttgatatt taaactgatt cctgccacca ggtccttggg ccaccctgtc
20

1

valentis8002us2.txt

cctgcgtctc atatttctgc atgctgcttt gtttgtatat agtgcgctcc tggcctcagg 80	1
ctcgctcccc tccagctctc gcttcattgt tctccaagtc agaagcccc gcacccgccc 40	2
cgcagcagcg tgagccgtag tcaactgctgg ccgcttcgcc tgcgtgcgcg cacggaaatc 00	3
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agccccagcc tctctcaagc gcacccacct ccgcgcaccc cagctcaggc gaagctggag 20	4
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caatataaat gctctgggca cttgggaatc gaagggtggga tcatatctaa tcagcaaatc 40	11

valentis8002us2.txt

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valentis8002us2.txt

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ttttaataaa tttaatttgg tttcctttgc tcaactctct tatgtaatat cacactgtct 22
80

gtgagttact cttcttggtc tct 23
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<210> 10
<211> 480
<212> PRT
<213> mouse

<400> 10

Met Lys His Leu Val Ala Ala Trp Leu Leu Val Gly Leu Ser Leu Gly
1 5 10 15

Val Pro Gln Phe Gly Lys Gly Asp Ile Cys Asn Pro Asn Pro Cys Glu
20 25 30

Asn Gly Gly Ile Cys Leu Ser Gly Leu Ala Asp Asp Ser Phe Ser Cys
35 40 45

Glu Cys Pro Glu Gly Phe Ala Gly Pro Asn Cys Ser Ser Val Val Glu
50 55 60

Val Ala Ser Asp Glu Glu Lys Pro Thr Ser Ala Gly Pro Cys Ile Pro
65 70 75 80

Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu Ala Tyr Arg
85 90 95

Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg Gly Phe Asn
100 105 110

Gly Ile His Cys Gln His Asn Ile Asn Glu Cys Glu Ala Glu Pro Cys
115 120 125

Arg Asn Gly Gly Ile Cys Thr Asp Leu Val Ala Asn Tyr Ser Cys Glu
130 135 140

valentis8002us2.txt

Cys 145	Pro	Gly	Glu	Phe	Met 150	Gly	Arg	Asn	Cys	Gln 155	Tyr	Lys	Cys	Ser	Gly 160
His	Leu	Gly	Ile	Glu 165	Gly	Gly	Ile	Ile	Ser 170	Asn	Gln	Gln	Ile	Thr 175	Ala
Ser	Ser	Asn	His 180	Arg	Ala	Leu	Phe	Gly 185	Leu	Gln	Lys	Trp	Tyr 190	Pro	Tyr
Tyr	Ala	Arg 195	Leu	Asn	Lys	Lys	Gly 200	Leu	Ile	Asn	Ala	Trp 205	Thr	Ala	Ala
Glu	Asn 210	Asp	Arg	Trp	Pro	Trp 215	Ile	Gln	Ile	Asn	Leu 220	Gln	Arg	Lys	Met
Arg 225	Val	Thr	Gly	Val	Ile 230	Thr	Gln	Gly	Ala	Lys 235	Arg	Ile	Gly	Ser	Pro 240
Glu	Tyr	Ile	Lys	Ser 245	Tyr	Lys	Ile	Ala	Tyr 250	Ser	Asn	Asp	Gly	Lys 255	Thr
Trp	Ala	Met	Tyr 260	Lys	Val	Lys	Gly	Thr 265	Asn	Glu	Glu	Met	Val 270	Phe	Arg
Gly	Asn	Val 275	Asp	Asn	Asn	Thr	Pro 280	Tyr	Ala	Asn	Ser	Phe 285	Thr	Pro	Pro
Ile	Lys 290	Ala	Gln	Tyr	Val	Arg 295	Leu	Tyr	Pro	Gln	Ile 300	Cys	Arg	Arg	His
Cys 305	Thr	Leu	Arg	Met	Glu 310	Leu	Leu	Gly	Cys	Glu 315	Leu	Ser	Gly	Cys	Ser 320
Glu	Pro	Leu	Gly	Met 325	Lys	Ser	Gly	His	Ile 330	Gln	Asp	Tyr	Gln	Ile 335	Thr
Ala	Ser	Ser	Val	Phe	Arg	Thr	Leu	Asn	Met	Asp	Met	Phe	Thr	Trp	Glu

340

345

350

Pro Arg Lys Ala Arg Leu Asp Lys Gln Gly Lys Val Asn Ala Trp Thr
 355 360 365

Ser Gly His Asn Asp Gln Ser Gln Trp Leu Gln Val Asp Leu Leu Val
 370 375 380

Pro Thr Lys Val Thr Gly Ile Ile Thr Gln Gly Ala Lys Asp Phe Gly
 385 390 395 400

His Val Gln Phe Val Gly Ser Tyr Lys Leu Ala Tyr Ser Asn Asp Gly
 405 410 415

Glu His Trp Met Val His Gln Asp Glu Lys Gln Arg Lys Asp Lys Val
 420 425 430

Phe Gln Gly Asn Phe Asp Asn Asp Thr His Arg Lys Asn Val Ile Asp
 435 440 445

Pro Pro Ile Tyr Ala Arg Phe Ile Arg Ile Leu Pro Trp Ser Trp Tyr
 450 455 460

Gly Arg Ile Thr Leu Arg Ser Glu Leu Leu Gly Cys Ala Glu Glu Glu
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 <212> DNA
 <213> Homo sapiens

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tcggctacac tgccctccgc gacgaccct gaccagccgg ggtcacgtcc gggagacggg 1
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atcatgaagc gctcggtagc cgtctggctc ttggtcgggc tcagcctcgg tgtccccag 2

valentis8002us2.txt

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caagtttgtc gaagacattg cactttgcga atggaacttc ttggctgtga actgtcgggt 40	11
tgttctgagc ctctgggtat gaaatcagga catatacaag actatcagat cactgcctcc 00	12
agcatcttca gaacgctcaa catggacatg ttcacttggg aaccaaggaa agctcggctg	12

valentis8002us2.txt

60

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<400> 12

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1 5 10

<210> 13
<211> 6
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<400> 13

Gly Lys Arg Thr Ser Ser
1 5

valentis8002us2.txt

<210> 14
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<400> 14

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 20 25 30

Met Lys Arg Ser Val Ala Val Trp Leu Leu Val Gly Leu Ser Leu Gly
 35 40 45

Val Pro Gln Phe Gly Lys Gly Asp Ile Cys Asp Pro Asn Pro Cys Glu
 50 55 60

Asn Gly Gly Ile Cys Leu Pro Gly Leu Ala Val Gly Ser Phe Ser Cys
 65 70 75 80

Glu Cys Pro Asp Gly Phe Thr Asp Pro Asn Cys Ser Ser Val Val Glu
 85 90 95

Val Ala Ser Asp Glu Glu Glu Pro Thr Ser Ala Gly Pro Cys Thr Pro
 100 105 110

Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu Ala Tyr Arg
 115 120 125

Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg Gly Phe Asn
 130 135 140

Gly Ile His Cys Gln His Asn Ile Asn Glu Cys Glu Val Glu Pro Cys
 145 150 155 160

Lys Asn Gly Gly Ile Cys Thr Asp Leu Val Ala Asn Tyr Ser Cys Glu
 165 170 175

valentis8002us2.txt

Cys	Pro	Gly	Glu	Phe	Met	Gly	Arg	Asn	Cys	Gln	Tyr	Lys	Cys	Ser	Gly
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Pro	Leu	Gly	Ile	Glu	Gly	Gly	Ile	Ile	Ser	Asn	Gln	Gln	Ile	Thr	Ala
		195					200					205			
Ser	Ser	Thr	His	Arg	Ala	Leu	Phe	Gly	Leu	Gln	Lys	Trp	Tyr	Pro	Tyr
	210					215					220				
Tyr	Ala	Arg	Leu	Asn	Lys	Lys	Gly	Leu	Ile	Asn	Ala	Trp	Thr	Ala	Ala
225					230					235					240
Glu	Asn	Asp	Arg	Trp	Lys	Arg	Trp	Ile	Gln	Ile	Asn	Leu	Gln	Arg	Lys
				245					250					255	
Met	Arg	Val	Thr	Gly	Val	Ile	Thr	Gln	Gly	Ala	Lys	Arg	Ile	Gly	Ser
			260					265					270		
Pro	Glu	Tyr	Ile	Lys	Phe	Tyr	Lys	Ile	Ala	Tyr	Ser	Asn	Asp	Gly	Lys
		275					280					285			
Thr	Trp	Ala	Met	Tyr	Lys	Val	Lys	Gly	Thr	Asn	Glu	Asp	Met	Val	Phe
	290					295					300				
Arg	Gly	Asn	Ile	Asp	Asn	Asn	Thr	Pro	Tyr	Ala	Asn	Ser	Phe	Thr	Pro
305					310					315					320
Pro	Ile	Lys	Ala	Gln	Tyr	Val	Arg	Leu	Tyr	Pro	Gln	Val	Cys	Arg	Arg
				325					330					335	
His	Cys	Thr	Leu	Arg	Met	Glu	Leu	Leu	Gly	Cys	Glu	Leu	Ser	Gly	Cys
			340					345					350		
Ser	Glu	Pro	Leu	Gly	Met	Lys	Ser	Gly	His	Ile	Gln	Asp	Tyr	Gln	Ile
		355					360					365			
Thr	Ala	Ser	Ser	Ile	Phe	Arg	Thr	Leu	Asn	Met	Asp	Met	Phe	Thr	Trp
	370					375					380				

valentis8002us2.txt

Glu Pro Arg Lys Ala Arg Leu Asp Lys Gln Gly Lys Val Asn Ala Trp
385 390 395 400

Thr Ser Gly His Asn Asp Gln Ser Gln Trp Leu Gln Val Asp Leu Leu
405 410 415

Val Pro Thr Lys Val Thr Gly Ile Ile Thr Gln Gly Ala Lys Asp Phe
420 425 430

Gly His Val Gln Phe Val Gly Ser Tyr Lys Leu Ala Tyr Ser Asn Asp
435 440 445

Gly Glu His Trp Thr Val Tyr Gln Asp Glu Lys Gln Arg Lys Asp Lys
450 455 460

Val Phe Gln Gly Asn Phe Asp Asn Asp Thr His Arg Lys Asn Val Ile
465 470 475 480

Asp Pro Pro Ile Tyr Ala Arg His Ile Arg Ile Leu Pro Trp Ser Trp
485 490 495

Tyr Gly Arg Ile Thr Leu Ala Ser Glu Leu Leu Gly Cys Thr Glu Glu
500 505 510

Glu

<210> 15
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<212> PRT
<213> Homo sapiens

<400> 15

Gly Glu Ala Thr Phe His Asn Arg Leu Pro Tyr Leu Gly Lys Ser Ile
1 5 10 15

Ser Met Glu

valentis8002us2.txt

<210> 16
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<400> 16

Glu Thr Glu Trp Phe Phe Phe Phe Ser
 1 5

<210> 17
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<400> 17

Lys Ser Gly Gln Ile Met Val Gly Asn
 1 5

<210> 18
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Arg Cys Phe Tyr
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<210> 19
 <211> 318
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 20

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 80

tttcgtggaa atgttgataa caacacacca tatgctaatt ctttcacacc cccaatcaaa 2

valentis8002us2.txt

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<210> 20
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<213> Homo sapiens

<400> 20

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Ile Ser Ala Ser Tyr Val Tyr Met Gly Phe Met Gly Leu Gln Arg Trp
20 25 30

Gly Pro Glu Leu Ala Arg Leu Tyr Arg Thr Gly Ile Val Asn Ala Trp
35 40 45

His Ala Ser Asn Tyr Asp Ser Lys Pro Trp Ile Gln Val Asn Leu Leu
50 55 60

Arg Lys Met Arg Val Ser Gly Val Met Thr Gln Gly Ala Ser Arg Ala
65 70 75 80

Gly Arg Ala Glu Tyr Leu Lys Thr Phe Lys Val Ala Tyr Ser Leu Asp
85 90 95

Gly Arg Lys Phe Glu Phe Ile Gln Asp Glu Ser Gly Gly Asp Lys Glu
100 105 110

Phe Leu Gly Asn Leu Asp Asn Asn Ser Leu Lys Val Asn Met Phe Asn
115 120 125

Pro Thr Leu Glu Ala Gln Tyr Ile Arg Leu Tyr Pro Val Ser Cys His
130 135 140

valentis8002us2.txt

Arg 145	Gly	Cys	Thr	Leu	Arg 150	Phe	Glu	Leu	Leu	Gly 155	Cys	Glu	Leu	His	Gly 160
Cys	Leu	Glu	Pro	Leu 165	Gly	Leu	Lys	Asn	Asn 170	Thr	Ile	Pro	Asp	Ser 175	Gln
Met	Ser	Ala	Ser 180	Ser	Ser	Tyr	Lys	Thr 185	Trp	Asn	Leu	Arg	Ala 190	Phe	Gly
Trp	Tyr	Pro 195	His	Leu	Gly	Arg	Leu 200	Asp	Asn	Gln	Gly	Leu 205	Ile	Asn	Ala
Trp	Thr 210	Ala	Gln	Ser	Asn	Ser 215	Ala	Lys	Glu	Trp	Leu 220	Gln	Val	Asp	Leu
Gly 225	Thr	Gln	Arg	Gln	Val 230	Thr	Gly	Ile	Ile	Thr 235	Gln	Gly	Ala	Arg	Asp 240
Phe	Gly	His	Ile	Gln 245	Tyr	Val	Glu	Ser	Tyr 250	Lys	Val	Ala	His	Ser 255	Asp
Asp	Gly	Val	Gln 260	Trp	Thr	Val	Tyr	Glu 265	Glu	Gln	Gly	Ser	Ser 270	Lys	Val
Phe	Gln	Gly 275	Asn	Leu	Asp	Asn	Asn 280	Ser	His	Lys	Lys	Asn 285	Ile	Phe	Glu
Lys	Pro 290	Phe	Met	Ala	Arg	Tyr 295	Val	Arg	Val	Leu	Pro 300	Val	Ser	Trp	His
Asn 305	Arg	Ile	Thr	Leu	Arg 310	Leu	Glu	Leu	Leu	Gly 315	Cys				

<210> 21
 <211> 321
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (225)..(225)
 <223> Placeholder used in the sequence comparison of SEQ.ID.NOS.20-21

<220>
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 <222> (243)..(243)
 <223> Placeholder used in the sequence comparison of SEQ.ID.NOS.20-21

<220>
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 <222> (266)..(266)
 <223> Placeholder used in the sequence comparison of SEQ.ID.NOS.20-21

<220>
 <221> MISC_FEATURE
 <222> (277)..(277)
 <223> Placeholder used in the sequence comparison of SEQ.ID.NOS.20-21

<400> 21

Cys	Ser	Gly	Pro	Leu	Gly	Ile	Glu	Gly	Gly	Ile	Ile	Ser	Asn	Gln	Gln
1				5				10						15	

Ile	Thr	Ala	Ser	Ser	Thr	His	Arg	Ala	Leu	Phe	Gly	Leu	Gln	Leu	Trp
			20					25					30		

Tyr	Pro	Tyr	Tyr	Ala	Arg	Leu	Asn	Lys	Lys	Gly	Leu	Ile	Asn	Ala	Trp
		35					40					45			

Thr	Ala	Ala	Glu	Asn	Asp	Arg	Trp	Asn	Arg	Trp	Ile	Gln	Ile	Asn	Leu
	50					55					60				

Gln	Arg	Lys	Met	Arg	Val	Thr	Gly	Val	Ile	Thr	Gln	Gly	Ala	Lys	Arg
65					70					75					80

Ile	Gly	Ser	Pro	Glu	Tyr	Ile	Lys	Phe	Tyr	Lys	Ile	Ala	Tyr	Ser	Asn
				85					90					95	

Asp	Gly	Lys	Thr	Trp	Ala	Met	Tyr	Lys	Val	Lys	Gly	Thr	Asn	Glu	Asp
			100					105					110		

Met	Val	Phe	Arg	Gly	Asn	Ile	Asp	Asn	Asn	Thr	Pro	Tyr	Ala	Asn	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

valentis8002us2.txt

115

120

125

Phe	Thr	Pro	Pro	Ile	Lys	Ala	Gln	Tyr	Val	Arg	Leu	Tyr	Pro	Gln	Val
	130					135					140				
Cys	Arg	Arg	His	Cys	Thr	Leu	Arg	Met	Glu	Leu	Leu	Gly	Cys	Glu	Leu
145					150					155					160
Ser	Gly	Cys	Ser	Glu	Pro	Leu	Gly	Met	Lys	Ser	Gly	His	Ile	Gln	Asp
				165					170					175	
Tyr	Gln	Ile	Thr	Ala	Ser	Ser	Ile	Phe	Arg	Thr	Leu	Asn	Met	Asp	Met
			180					185					190		
Phe	Thr	Trp	Glu	Pro	Arg	Lys	Ala	Arg	Leu	Asp	Lys	Gln	Gly	Lys	Val
		195					200					205			
Asn	Ala	Trp	Thr	Ser	Gly	His	Asn	Asp	Gln	Ser	Gln	Trp	Leu	Gln	Val
	210					215					220				
Xaa	Leu	Leu	Val	Pro	Thr	Lys	Val	Thr	Gly	Ile	Ile	Thr	Gln	Gly	Ala
225					230					235					240
Lys	Asp	Xaa	Gly	His	Val	Gln	Phe	Val	Gly	Ser	Tyr	Lys	Leu	Ala	Tyr
				245					250					255	
Ser	Asn	Asp	Gly	Glu	His	Trp	Thr	Val	Xaa	Gln	Asp	Glu	Lys	Gln	Arg
			260					265					270		
Lys	Asp	Lys	Val	Xaa	Gln	Gly	Asn	Phe	Asp	Asn	Asp	Thr	His	Arg	Lys
		275					280					285			
Asn	Val	Ile	Asp	Pro	Pro	Ile	Tyr	Ala	Arg	His	Ile	Arg	Ile	Leu	Pro
	290					295					300				
Trp	Ser	Trp	Tyr	Gly	Arg	Ile	Thr	Leu	Ala	Ser	Glu	Leu	Leu	Gly	Cys
305					310					315					320

Thr

<210> 22
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 22

Met Lys Arg Ser Val Ala Val Trp Leu Leu Val Gly Leu Ser Leu Gly
 1 5 10 15

Val Pro Gln Phe Gly Lys Gly Asp Ile
 20 25

<210> 23
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 23

Cys Asp Pro Asn Pro Cys Glu Asn Gly Gly Ile Cys Leu Pro Gly Leu
 1 5 10 15

Ala Val Gly Ser Phe Ser Cys Glu Cys Pro Asp Gly Phe Thr Asp Pro
 20 25 30

Asn Cys Ser Ser Val Val Glu Val Ala Ser Asp Glu Glu Glu Pro Thr
 35 40 45

Ser Ala Gly Pro
 50

<210> 24
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 24

Cys Thr Pro Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu
 1 5 10 15

valentis8002us2.txt

Ala Tyr Arg Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg
 20 25 30

Gly Phe Asn Gly Ile His Cys Gln His Asn Ile
 35 40

<210> 25
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 25

Cys Glu Val Glu Pro Cys Lys Asn Gly Gly Ile Cys Thr Asp Leu Val
 1 5 10 15

Ala Asn Tyr Ser Cys Glu Cys Pro Gly Glu Phe Met Gly Arg Asn Cys
 20 25 30

Glu Tyr Lys
 35

<210> 26
 <211> 40
 <212> PRT
 <213> Artificial sequence

<220>
 <223> consensus EGF-like domain amino acid sequence

<220>
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 <222> (2)..(4)
 <223> nonconsensus sequence

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> nonconsensus sequence

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (13)..(25)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (27)..(27)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (29)..(29)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (31)..(32)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (35)..(35)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (37)..(38)

<223> nonconsensus sequence

<220>

<221> MISC_FEATURE

<222> (40)..(40)

<223> nonconsensus sequence

<400> 26

Cys	Xaa	Xaa	Xaa	Pro	Cys	Xaa	Asn	Gly	Gly	Xaa	Cys	Xaa	Xaa	Xaa	Xaa
1				5					10					15	

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Tyr	Xaa	Cys	Xaa	Cys	Xaa	Xaa
			20					25					30		

Gly	Tyr	Xaa	Gly	Xaa	Xaa	Cys	Xaa
			35				40

valentis8002us2.txt

<210> 27
 <211> 310
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> unknown sequence

<400> 27
 ngtgatattt gtgatcccaa tccatgtgaa aatggaggta tctgtttgcc aggattggct
 60

gtaggttcct tttcctgtga gtgtccagat ggcttcacag accccaactg ttctagtgtt 1
 20

gtggagggtg gtccctgcac tcctaatacca tgccataatg gaggaacctg tgaaataagt 1
 80

gaagcatacc gaggggatac attcataggc tatgtttgta aatgtccccg aggatttaat 2
 40

gggattcact gtcagcacia cataaatgaa tgcgaagttg agccttgcaa aaatgggtgga 3
 00

atatgtacag 3
 10

<210> 28
 <211> 2308
 <212> DNA
 <213> mouse

<220>
 <221> misc_feature
 <222> (1819)..(1821)
 <223> unknown sequence

<400> 28
 gaattccggg agggagggtg ggggggaggc ccgagggggc ccaaagccag ctaggctcag
 60

tctcacacgc gcgcccgcac tgtttgtata tagtgcgctc ctggcctcag gctcgctccc 1
 20

ctccagctct cgcttcattg ttctccaagt cagaagcccc cgcacccgcc gcgcagcagc 1
 80

valentis8002us2.txt

gtgagccgta gtcactgctg gccgcttcgc ctgcgtgcgc gcacggaaat cggggagcca 40	2
ggaacccaag gagccgccgt ccgcccgcgt tgcctctgct agaccactcg cagccccagc 00	3
ctctctcaag cgcacccacc accactcttt tategccctt cccaagattt gagaagcgct 60	3
atcacccttt ctctagggcc accactcttt tategccctt cccaagattt gagaagcgct 20	4
gcgggaggaa agacgtcctc ttgatctctg acagggcggg gtttactgct gtcctgcagg 80	4
cgcgcctcgc ctactgtgcc ctccgctacg accccggacc agcccaggtc acgtccgtga 40	5
gaagggatca tgaagcactt ggtagcagcc tggcttttgg ttggactcag cctcgggggtg 00	6
ccccagttcg gcaaagggtga catttgcaac ccgaaccctt gtgaaaatgg tggcatctgt 60	6
ctgtcaggac tggctgatga ttccttttcc tgtgagtgtc cagaaggctt cgcagggtccg 20	7
aactgctcta gtgttgtgga ggttgcata gatgaagaaa agcctacttc agcagggtccc 80	7
tgcatacccta acccatgcca taacggagga acctgtgaga taagcgaagc ctatcgagga 40	8
gacacattca taggctatgt ttgtaaatgt cctcgggggat ttaatgggat tcaactgtcag 00	9
cacaatataa atgaatgtga agctgagcct tgcagaaatg gcggaatatg taccgacctt 60	9
gttgctaact actcttgtga atgcccagga gaatttatgg gacgaaattg tcaatataaa 20	10
tgctctgggc acttgggaat cgaagggtggg atcatatcta atcagcaaata cacagcttca 80	10
tctaatacacc gagctctttt tggactccag aagtgggtatc cctactatgc tagacttaata 40	11
aagaagggcc ttataaatgc ctggacagct gctgaaaatg acagatggcc atggatttcag 00	12

valentis8002us2.txt

gtaacagtgg gatgagacaa atccatttcc caaattatca gaatcattat agaagtaggt 60	12
tagggagaat tggctgtgat tctttctcat ggttaaaatg tgatttagtt cagaattaac 20	13
atggttggaa actctaaaaa atgtggaaaa caggaacatt ctatgtctga aaatctgaaa 80	13
atagcatcaa gatgaaaaca ttcttttagtc ataaatatac tctttttaagt tatagtagag 40	14
aaaaagatct tatcatttca taagtggact tttgggatag cattggaaat gtaaatgaaa 00	15
taaataccta attgaaaaaa gtttattcta aagtgttaat atttagcaac agattcagag 60	15
acaagaaagt aacaattcaa tctgtgtatt ttttgtgaga aatagtttcc catgtgcaaa 20	16
tataaagtgc gcatcatatc atgataatat ccaactgtct gcagaactcc ctttcataaa 80	16
tgagagaatt ttaattcata gtgccttata tcctcatcag ccatctgact ttactacaga 40	17
agaaaacaat gaaatgatgc attaagtgct ttgctagaag aaacatcata gcaaagctga 00	18
tagcccatcat tctgtgcann naagcttcca gagcactcga gaaaaagcag aaatgagatg 60	18
ttttatgaaa accgaaaaga taatctgatt tctgtgaaat atacttttga tcatgtgggtt 20	19
ctttaagata gtcactaaca agtcattagt agcagatacc aaatgggaga aaatttccag 80	19
tatactgagg gtcaaggcag tcatgctgaa actacatgag gtcaggaaag ttttgaaata 40	20
aggtgattttt ggaaggatac cttcaactgg cctagattttt caagaaacag tgtaatcaac 00	21
agccaaacat gagaatctag ctaacagcat ttagaaaacc agaactaaga gtgttactgg 60	21
ggaattgcat ttaaattccag tatgagagtt tgcaaatgcc gtattcttct aaggggtttg 20	22

valentis8002us2.txt

tgccacattt tgttaccatg gagtcctctg taagaacttt attagataaa tcatctttac 22
80

actataattt gaataaaagc cggaattc 23
08

<210> 29
<211> 221
<212> PRT
<213> mouse

<400> 29

Met Lys His Leu Val Ala Ala Trp Leu Leu Val Gly Leu Ser Leu Gly
1 5 10 15

Val Pro Gln Phe Gly Lys Gly Asp Ile Cys Asn Pro Asn Pro Cys Glu
20 25 30

Asn Gly Gly Ile Cys Leu Ser Gly Leu Ala Asp Asp Ser Phe Ser Cys
35 40 45

Glu Cys Pro Glu Gly Phe Ala Gly Pro Asn Cys Ser Ser Val Val Glu
50 55 60

Val Ala Ser Asp Glu Glu Lys Pro Thr Ser Ala Gly Pro Cys Ile Pro
65 70 75 80

Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu Ala Tyr Arg
85 90 95

Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg Gly Phe Asn
100 105 110

Gly Ile His Cys Gln His Asn Ile Asn Glu Cys Glu Ala Glu Pro Cys
115 120 125

Arg Asn Gly Gly Ile Cys Thr Asp Leu Val Ala Asn Tyr Ser Cys Glu
130 135 140

valentis8002us2.txt

Cys Pro Gly Glu Phe Met Gly Arg Asn Cys Gln Tyr Lys Cys Ser Gly
145 150 155 160

His Leu Gly Ile Glu Gly Gly Ile Ile Ser Asn Gln Gln Ile Thr Ala
165 170 175

Ser Ser Asn His Arg Ala Leu Phe Gly Leu Gln Lys Trp Tyr Pro Tyr
180 185 190

Tyr Ala Arg Leu Asn Lys Lys Gly Leu Ile Asn Ala Trp Thr Ala Ala
195 200 205

Glu Asn Asp Arg Trp Pro Trp Ile Gln Val Thr Val Gly
210 215 220

<210> 30
<211> 481
<212> PRT
<213> Homo sapiens

<400> 30

Met Lys Arg Ser Val Ala Val Trp Leu Leu Val Gly Leu Ser Leu Gly
1 5 10 15

Val Pro Gln Phe Gly Lys Gly Asp Ile Cys Asp Pro Asn Pro Cys Glu
20 25 30

Asn Gly Gly Ile Cys Leu Pro Gly Leu Ala Val Gly Ser Phe Ser Cys
35 40 45

Glu Cys Pro Asp Gly Phe Thr Asp Pro Asn Cys Ser Ser Val Val Glu
50 55 60

Val Ala Ser Asp Glu Glu Glu Pro Thr Ser Ala Gly Pro Cys Thr Pro
65 70 75 80

Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu Ala Tyr Arg
85 90 95

valentis8002us2.txt

Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg Gly Phe Asn
100 105 110

Gly Ile His Cys Gln His Asn Ile Asn Glu Cys Glu Val Glu Pro Cys
115 120 125

Lys Asn Gly Gly Ile Cys Thr Asp Leu Val Ala Asn Tyr Ser Cys Glu
130 135 140

Cys Pro Gly Glu Phe Met Gly Arg Asn Cys Gln Tyr Lys Cys Ser Gly
145 150 155 160

Pro Leu Gly Ile Glu Gly Gly Ile Ile Ser Asn Gln Gln Ile Thr Ala
165 170 175

Ser Ser Thr His Arg Ala Leu Phe Gly Leu Gln Lys Trp Tyr Pro Tyr
180 185 190

Tyr Ala Arg Leu Asn Lys Lys Gly Leu Ile Asn Ala Trp Thr Ala Ala
195 200 205

Glu Asn Asp Arg Trp Lys Arg Trp Ile Gln Ile Asn Leu Gln Arg Lys
210 215 220

Met Arg Val Thr Gly Val Ile Thr Gln Gly Ala Lys Arg Ile Gly Ser
225 230 235 240

Pro Glu Tyr Ile Lys Phe Tyr Lys Ile Ala Tyr Ser Asn Asp Gly Lys
245 250 255

Thr Trp Ala Met Tyr Lys Val Lys Gly Thr Asn Glu Asp Met Val Phe
260 265 270

Arg Gly Asn Ile Asp Asn Asn Thr Pro Tyr Ala Asn Ser Phe Thr Pro
275 280 285

Pro Ile Lys Ala Gln Tyr Val Arg Leu Tyr Pro Gln Val Cys Arg Arg
290 295 300

valentis8002us2.txt

His Cys Thr Leu Arg Met Glu Leu Leu Gly Cys Glu Leu Ser Gly Cys
305 310 315 320

Ser Glu Pro Leu Gly Met Lys Ser Gly His Ile Gln Asp Tyr Gln Ile
325 330 335

Thr Ala Ser Ser Ile Phe Arg Thr Leu Asn Met Asp Met Phe Thr Trp
340 345 350

Glu Pro Arg Lys Ala Arg Leu Asp Lys Gln Gly Lys Val Asn Ala Trp
355 360 365

Thr Ser Gly His Asn Asp Gln Ser Gln Trp Leu Gln Val Asp Leu Leu
370 375 380

Val Pro Thr Lys Val Thr Gly Ile Ile Thr Gln Gly Ala Lys Asp Phe
385 390 395 400

Gly His Val Gln Phe Val Gly Ser Tyr Lys Leu Ala Tyr Ser Asn Asp
405 410 415

Gly Glu His Trp Thr Val Tyr Gln Asp Glu Lys Gln Arg Lys Asp Lys
420 425 430

Val Phe Gln Gly Asn Phe Asp Asn Asp Thr His Arg Lys Asn Val Ile
435 440 445

Asp Pro Pro Ile Tyr Ala Arg His Ile Arg Ile Leu Pro Trp Ser Trp
450 455 460

Tyr Gly Arg Ile Thr Leu Ala Ser Glu Leu Leu Gly Cys Thr Glu Glu
465 470 475 480

Glu

<210> 31
<211> 103

<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> unknown sequence

<400> 31

Xaa Asp Ile Cys Asp Pro Asn Pro Cys Glu Asn Gly Gly Ile Cys Leu
1 5 10 15

Pro Gly Leu Ala Val Gly Ser Phe Ser Cys Glu Cys Pro Asp Gly Phe
20 25 30

Thr Asp Pro Asn Cys Ser Ser Val Val Glu Val Gly Pro Cys Thr Pro
35 40 45

Asn Pro Cys His Asn Gly Gly Thr Cys Glu Ile Ser Glu Ala Tyr Arg
50 55 60

Gly Asp Thr Phe Ile Gly Tyr Val Cys Lys Cys Pro Arg Gly Phe Asn
65 70 75 80

Gly Ile His Cys Gln His Asn Ile Asn Glu Cys Glu Val Glu Pro Cys
85 90 95

Lys Asn Gly Gly Ile Cys Thr
100

<210> 32
<211> 19
<212> DNA
<213> Homo sapiens

<400> 32
acc caagggg caaaaagga
19

<210> 33
<211> 19

valentis8002us2.txt

<212> DNA

<213> Homo sapiens

<400> 33

cctgtaacca ttgtgactg

19